

### Abstract Of The Disclosure

A sensor element is described, which is used in particular for detecting a physical property of a measuring gas, preferably for determining the oxygen partial pressure in an exhaust gas of an internal combustion engine. The sensor element contains at least one electrochemical measuring cell, which includes a first electrode and a second electrode, which are electrically connected by a solid electrolyte. The second electrode is in a gas chamber, which is connected to the measuring gas located outside the sensor element via a first element having a catalytically active material and a second diffusion-limiting element. The first element has a length of at least 1 mm in the diffusion direction of the measuring gas.